

SAUMYA AGRAWAL

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science, Computer Science and Statistics

Minor: Microeconomics

Graduation: May 2022

GPA: 3.57/4.0

Dean's List: Fall 2018

EXPERIENCE

Research Assistant

January 2020 – Present

The Personal Relationships, Interpersonal Stress, and Mindfulness Laboratory (PRISM)

Psychology Department, UIUC

- Creating **Pre-processing pipelines** for task-based functional neuroimaging designs (fMRI)
- Contributing to brain-based **predictive modelling** of psychological risk in peripartum women

Course Assistant, Data Science Exploration (STAT207)

August 2019 – Present

Statistics Department, UIUC

- Assisting students in understanding **Python** and its **data tools** by holding laboratory hours twice a week
- **Evaluating** laboratory submissions, exams, and projects on a weekly basis for 15+ students

Research Assistant, Clancy Laboratory

January 2019 – May 2019

Researchers' Initiative, UIUC

- Performed a correlation study on a **demographic dataset** collected on the different aspects of identity for Polish and Polish-American Women
- Organized and analysed data using **REDCAP** to make it more decipherable for research purposes

PROJECTS

Soybean Export – Regression Model

February 2019 – May 2019

- Conducted **Multifactor Regression** by quantifying the **significant variables** which affected the export of Soybean from the United States in the last decade
- Created a **reduced model** by eliminating errors such as **multicollinearity, heteroskedasticity, or autocorrelated errors**

Guess the Dialogue- PC Game

April 2019 – May 2019

- Programmed an interactive game to access the **audio hardware** of the computer
- Designed and developed the program interface using **OpenFrameworks, C++** toolkit while practicing **test-driven development**

Lazy-Econ – Android App

November 2018 – December 2019

- Created a **Mobile app** that applies principles of **economic theory** to model the effects of governmental policies on domestic markets, interest rates, and individual firms
- Developed UI functionalities including interactive graphs with Android Studio

SKILLS

Languages: C++, Java, Python, R, HTML/CSS

Technical Skills: Git, Pandas Library, Jupyter Notebook, Scikit-learn

LEADERSHIP & HONORS

Girls Who Code

August 2019 – Present

- Teach middle school to high school girls basic **web development** as an instructor

Phi Eta Sigma

August 2019 – Present

- Volunteer as a **service committee member** for the Honor society